Amendment B

Application No. 10/710,449

Amendment Dated February 10, 2005

Reply to Office Action of May 17, 2005

Attorney Docket No.: 716919.78

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior revisions, and listings, of claims in the

application.

Listing of Claims:

1. (Currently Amended) An insertable temperature probe device for use in

measuring temperature of fluid in a conduit, said probe device including:

a temperature sensor device with a sensing element enclosed in a housing, a

portion of the sensor device is adapted to transmit a signal indicative of the temperature of fluid

in a conduit;

a carrier for insertion into a flow stream in the conduit, at least a portion of the

sensor device carried by the carrier and is removably mounted within the carrier carrier, the

sensing element [is] and housing are contained within the carrier;

a seal positioned in a groove and engaging an outer portion perimeter of the

housing sensor device and an inside perimeter portion of the carrier to seal the carrier to the

sensor device preventing flow of fluid between the carrier and sensor device;

at least one member associated with the carrier to limit the selective movement of

the carrier;

a connector operably associated with the carrier for associating the carrier with

means to selectively move the carrier between extended and retracted positions upon command

when the probe device is mounted to a conduit;

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means for mounting the probe device on the conduit through which a fluid flows;

and

a flow director carried by the carrier and operable to direct fluid outside the

carrier to flow directly onto at least one of the sensing element and sensor device.

2. (Original) A probe device as set forth in claim 1 wherein the sensing element is

completely within a portion of the carrier.

3. (Original) A probe device as set forth in claim 2 wherein the sensing element

includes a thermocouple.

4. (Original) A probe device as set forth in claim 1 wherein the carrier includes a rod

with a tubular sidewall defining a bore, said sensing element is positioned within the bore and

has a fluid flow path formed therearound by an interior surface of the tubular side wall, said flow

director includes a first opening in said sidewall and opens into the bore for directing a portion of

the fluid flow from a main flow stream of fluid for flow around a portion of at least one of the

sensor device and the sensing element.

5. (Original) A probe device as set forth in claim 4 wherein the first opening is

positioned on the rod to face generally upstream in the conduit.

6. (Original) A probe device as set forth in claim 5 includes a second opening in the

sidewall of the rod generally opposite the first opening and opens into the bore, said second

opening to face generally downstream in the conduit.

7. (Original) A probe device as set forth in claim 6 wherein the first and second

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openings are generally in line and aligned generally in the direction of flow of fluid in the conduit.

- 8. (Original) A probe device as set forth in claim 4 wherein the sensing element includes a temperature sensor.
- 9. (Previously Presented) A probe device as set forth in Claim 1 including a selectively movable piston cylinder connected to the connector and operable to effect the movement of the carrier between the extended and retracted positions.

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